

## **Workshop on Achieving Carbon Neutrality**

*28<sup>th</sup> & 29<sup>th</sup> June 2024 (Virtual)*

*3.00 pm – 6.00 pm*

- ✚ Online Certificate Program of 6 hours spread over two days by Lead Faculties
- ✚ E- Certificate of Participation shall be provided to all participants.
- ✚ Course Material for future reference

### ***What is carbon neutrality?***

Carbon neutrality means not adding new greenhouse gas (GHG) emissions to the atmosphere. Where emissions continue, they must be offset by absorbing an equivalent amount from the atmosphere, for example through carbon capture and reforestation that is supported by carbon credit schemes. In the pursuit of a greener and sustainable future, India has taken a momentous step by introducing the Carbon Credit Trading Scheme (CCTS). This pioneering scheme, brought into effect through the Energy Conservation (Amendment) Bill, 2022, empowers the central government to establish a carbon trading framework.

***Assocham is organizing a unique online program on Certified Workshop on Achieving Carbon Neutrality***

***The program will provide participants a broad overview of carbon footprint mapping, covering the key concepts of GHG Emission and accounting, International standards, reporting frameworks, organisational and product carbon footprints and access to key data, tools and resources.***

### ***Topics to be covered:***

- ***GHG emission and inventorization***
  - Climate Change & Global Warming
  - Greenhouse Gases - Global and Indian Scenario
  - Approach to GHG Management
  - Identification of GHG Emission Sources
  - GHG Management tool General and sector-specific
- ***Carbon emission inventorization standards and reporting framework in India***

- Greenhouse Gas Inventorization – Scope 1 & 2
- Data collection and identification of emission factor
- Upstream and downstream sources of emissions
- Involvement of suppliers for GHG measurements
- Challenges and approach with scope 3 accounting
- Overall Approach for GHG Mitigations
- Mitigation opportunities for Scope 2 and Scope 3

▪ ***Organizational carbon footprinting***

Achieving carbon neutrality in organization is based on three pillars: reducing energy consumption through energy efficiency, transitioning to renewable energy sources and offsetting emissions that are beyond its control. Promoting sustainable practices amongst its employees and vendors to reduce their footprint. The companies should establish an internal carbon pricing system to raise awareness about the carbon footprint of each of its departments while incentivizing emissions reductions.

▪ ***Case studies on carbon mitigation strategies***

## ***Why does it matter?***

Governments are increasingly insisting on carbon neutrality. All businesses to become carbon neutral – or achieve ‘net zero’ GHG emissions carbon neutrality is a key objective for organizations wishing to:

- Help combat climate change
- Enhance your sustainability credentials and increase your resilience
- Align with the United Nations Sustainable Development Goals (UN SDGs)
- Gain a competitive edge by offering customers greener products and services
- Improve business efficiency by cutting energy costs

### ***Participation Fees:***

**Delegate Fees: 5000 + 18%GST per person**

Organizations nominating a minimum of 3 or more participants are entitled to a discount of 10% on the participation. Please make the payment using the following bank details:

Bank Name: HDFC Bank Ltd  
A/C Type : Savings  
A/C No:0014111000538  
IFSC Code: HDFC0000014

## ***Profile of Speakers***

### ***❖ Mr. Sandeep Kumar Mohanty, Partner, ESG, Net Zero/ Carbon Neutrality and Sustainable Finance, PwC India***

Mr. Sandeep Kumar have 14 years of professional experience in management consulting, with expertise in value creation through sustainability - i.e. advising companies on integrating ESG into corporate strategy to drive business outcomes - low carbon economy - i.e. carbon neutrality/ net-zero/ energy transition - and clean energy solutions.

I have led engagement with a diversified clientele that includes private corporates, funds, financial institutions, and public enterprises.

### ***❖ Dr. Debalina Sengupta, Coastal Resilience Program Director, Texas Sea Grant at Texas A&M University***

Dr. Debalina Sengupta's research has focused on sustainability in the context of process systems engineering. She has worked on process design, integration, intensification, optimization, life cycle assessment and other related concepts for sustainable supply chain design of biofuels, natural gas, consumer products, waste valorization, and decision-making in sustainability using metrics and indicators. In recent times, she has expanded these concepts in application for coastal infrastructure solutions including green infrastructure, nature based solutions, coastal advanced hazard warning systems, and marine debris. She has also been actively involved in the development of educational modules for sustainable manufacturing.

Dr. Sengupta is currently appointed as the Coastal Resilience Program Director for Texas Sea Grant at Texas A&M University and has courtesy appointments as a fellow at the Institute of Science, Technology and Public Policy at the Bush School of Government and Social Service and as a Graduate Faculty at the Artie McFerrin Department of Chemical Engineering. Previously, she has held the position of Associate Director of the TEES Gas and Fuels Research Center; Water, Energy and Food Nexus Coordinator at Texas A&M Energy Institute; and Lecturer at the Artie McFerrin Department of Chemical Engineering. Her roles included setup of the TEES Gas and Fuels Research Center American operations and developing collaborative research with international researchers from over 15 countries. Her current interests are related to resilience in the process industrial sector under disaster conditions, and energy transition.

She has authored two books, "Chemicals from biomass: integrating bioprocesses into chemical production complexes for sustainable development" by CRC Press (2012), and "Measuring Progress towards Sustainability" by Springer (2017). Apart from this, she has several peer reviewed journal publications, book chapters, and conference proceedings.

Dr. Sengupta is passionate about quantifying sustainability into action and implementation, and strives to work with diverse underrepresented people across the world. She is a critical thinker and likes to blog, read, and write in her spare time. Her interests also are in cooking, traveling, and photography. She enjoys spending time with family and friends. Her favorite places are New Orleans, Louisiana, USA, and Kolkata, West Bengal, India, her hometown. Dr. Debalina Sengupta's research has focused on sustainability in the context of process systems engineering. She has worked on process design, integration, intensification, optimization, life cycle assessment and other related concepts for sustainable supply chain design of biofuels, natural gas, consumer products, waste valorization, and decision-making in sustainability using metrics and indicators. In recent times, she has expanded these concepts in application for coastal infrastructure solutions including green infrastructure, nature based solutions, coastal advanced hazard warning systems, and marine debris. She has also been

actively involved in the development of educational modules for sustainable manufacturing. Dr. Sengupta is currently appointed as the Coastal Resilience Program Director for Texas Sea Grant at Texas A&M University and has courtesy appointments as a fellow at the Institute of Science, Technology and Public Policy at the Bush School of Government and Social Service and as a Graduate Faculty at the Artie McFerrin Department of Chemical Engineering. Previously, she has held the position of Associate Director of the TEES Gas and Fuels Research Center; Water, Energy and Food Nexus Coordinator at Texas A&M Energy Institute; and Lecturer at the Artie McFerrin Department of Chemical Engineering. Her roles included setup of the TEES Gas and Fuels Research Center American operations and developing collaborative research with international researchers from over 15 countries. Her current interests are related to resilience in the process industrial sector under disaster conditions, and energy transition. She has authored two books, “Chemicals from biomass: integrating bioprocesses into chemical production complexes for sustainable development” by CRC Press (2012), and “Measuring Progress towards Sustainability” by Springer (2017). Apart from this, she has several peer reviewed journal publications, book chapters, and conference proceedings. Dr. Sengupta is passionate about quantifying sustainability into action and implementation and strives to work with diverse underrepresented people across the world. She is a critical thinker and likes to blog, read, and write in her spare time. Her interests also are in cooking, traveling, and photography. She enjoys spending time with family and friends. Her favorite places are New Orleans, Louisiana, USA, and Kolkata, West Bengal, India, her hometown.

### ❖ **Mr. Sandeep Chatterjee, Supply Chain and Sustainability Leader, IBM**

Sandeep Chatterjee is a Supply Chain and Sustainability Leader with IBM Consulting with responsibility for engagements in supply chain, sustainability leveraging technology. Prior to IBM Consulting, he has worked with Deloitte, KPMG, Tata Motors, Lafarge, Infosys and Oracle Consulting and his key strengths lie in the areas of supply chain management, business process reengineering, emerging countries enablement, network optimization, sustainability, ERP advisory across multiple industries and geographies.

He holds an MBA from Indian Institute of Management, Kozhikode and a Bachelor of Engineering (Mechanical), Bengal Engineering and Science University, Shibpur (formerly Bengal Engineering College).

He has presented several academic and technical papers at International Conferences. He has written several supply chain cases for IIM Kozhikode, IIM Mumbai (NITIE), XLRI Jamshedpur and IIT Bombay. Among his various accolades and awards, recently Sandeep became the recipient of the coveted 'Global Power Leader 2024', 'Global 200 Inspirational Leaders 2023' and 'Economic Times Inspiring Leader Award', 2022. He has been conferred upon the "Supply Chain Evangelist", "MTC Global Awards for Excellence, 2017 as an outstanding Corporate Award: Consulting"; "50 Under 50 Professionals" by HR Association of India and "40 Under 40 Supply Chain Professionals" Awards and is among the top 100 Supply Chain Professionals in the country.

He is also the Board member at KARE School Hyderabad where his role is to chalk out the roadmap for a sustainable model for the first generation learners from not-so-privileged background.

Sandeep is also the Member of Board of Governors, IIM Kozhikode & the CEO and Chairman of International Supply Chain Education Alliance (ISCEA). ISCEA is on a mission to create awareness on supply chain across the world. He is also an Executive Member of ISCEA International Standards Board.

Sandeep is a Board Member of a few Startups and Investment Banks.



He also teaches management students & has been part of the interview panel for various management entrances and corporate recruitments.

Additionally, he belongs to the coveted MLE<sup>SM</sup> – Member of Leaders Excellence Group. He is also an avid marathoner.

Specialties: Supply Chain, Emerging Countries enablement, Business Process Reengineering, Oracle Application Implementation, Corporate Strategy, Sustainability, Supply Chain Network Optimization, ERP Footprint Review, Business Development, Solution Architecture, Delivery Management. Sandeep is a Supply Chain and Sustainability Leader with IBM Consulting with responsibility for engagements in supply chain, sustainability leveraging technology. Prior to IBM Consulting, he has worked with Deloitte, KPMG, Tata Motors, Lafarge, Infosys and Oracle Consulting and his key strengths lie in the areas of supply chain management, business process reengineering, emerging countries enablement, network optimization, sustainability, ERP advisory across multiple industries and geographies. He holds an MBA from Indian Institute of Management, Kozhikode and a Bachelor of Engineering (Mechanical), Bengal Engineering and Science University, Shibpur (formerly Bengal Engineering College). He has presented several academic and technical papers at International Conferences. He has written several supply chain cases for IIM Kozhikode, IIM Mumbai (NITIE), XLRI Jamshedpur and IIT Bombay. Among his various accolades and awards, recently Sandeep became the recipient of the coveted 'Global Power Leader 2024', 'Global 200 Inspirational Leaders 2023' and 'Economic Times Inspiring Leader Award', 2022. He has been conferred upon the "Supply Chain Evangelist", "MTC Global Awards for Excellence, 2017 as an outstanding Corporate Award: Consulting"; "50 Under 50 Professionals" by HR Association of India and "40 Under 40 Supply Chain Professionals" Awards and is among the top 100 Supply Chain Professionals in the country. He is also the Board member at KARE School Hyderabad where his role is to chalk out the roadmap for a sustainable model for the first generation learners from not-so-privileged background. Sandeep is also the Member of Board of Governors, IIM Kozhikode & the CEO and Chairman of International Supply Chain Education Alliance (ISCEA). ISCEA is on a mission to create awareness on supply chain across the world. He is also an Executive Member of ISCEA International Standards Board. Sandeep is a Board Member of a few Startups and Investment Banks. He also teaches management students & has been part of the interview panel for various management entrances and corporate recruitments. Additionally, he belongs to the coveted MLE<sup>SM</sup> – Member of Leaders Excellence Group. He is also an avid marathoner. Specialties: Supply Chain, Emerging Countries enablement, Business Process Reengineering, Oracle Application Implementation, Corporate Strategy, Sustainability, Supply Chain Network Optimization, ERP Footprint Review, Business Development, Solution Architecture, Delivery Management.

**❖ Mr. Sunil KS, Assistant Vice President PDCSL ICRA ESG Ratings (Category I, SEBI licensed ESG Rating agency)**

Sunil KS is a seasoned sustainability professional with over 12 years of experience in ESG, climate change, sustainability, climate risk, and corporate social responsibility. Sunil has a strong background in ESG consulting and strategic planning for organizational sustainability, driving impactful initiatives that foster positive environmental and social change. Sunil holds a Master's degree in Climate Change and Sustainability Studies from Tata Institute of Social Sciences (TISS) Mumbai and is a GARP SCR certificate holder. At Pragati Development Consulting Services Limited (ICRA ESG), Sunil is part of the core team that has developed ESG rating methodologies, processes, and policies, and he supervises a team of rating analysts. Prior to his role at ICRA, Sunil worked with Tata Consultancy Services (TCS), GIST Impact, HDFC Bank, and a few other reputed NGOs, where he developed his foundational expertise in sustainability.



***For further details contact:***

Ms Suchismita Saha, Assistant Director,

M +91-9830062342, E-suchismita.saha@assochem.com

The Associated Chambers of Commerce and Industry of India

**Eastern Regional Head Quarter:** Unit No. 1002, 10<sup>th</sup> Floor, Signet Tower, DN 2,  
Sector V, Salt Lake, Kolkata 700091, [www.assochem.com](http://www.assochem.com)